MANUFACTURING METHOD OF A DEVICE FOR ATTENUATING A SIGNAL CARRIED BY AN OPTICAL FIBER, ATTENUATION DEVICE, ATTENUATION SYSTEM AND CORRESPONDING APPLICATIONS

ABSTRACT OF THE DISCLOSURE

An attenuation device for a signal carried by an optical fiber in the form of a light signal is manufactured. The optical cores of a first and a second single-mode fiber are expanded. The first and second fibers are assembled facing each other in a capillary containing a liquid crystal. The liquid crystal is polymerized to produce an attenuation element. The resulting attenuation device comprises a first and a second single-mode fiber with expanded optical cores assembled facing each other in a capillary containing a liquid crystal forming attenuation means.